(b) what are the details thereof?

THE MINISTER OF STATE OF THE MINISTRY OF POWER AND NON-CONVENTIONAL ENERGY SOURCES (SHRI KALP NATH RAI): (a) and (b) Two schemes viz. Rajghat Hydro Electric Project (3 x 15MW) and combined Cycle gas turbine project (817 MW) at Dadri were approved by Government of India in the last two years to be set up in Uttar Pradesh. The former project is a joint venture of Uttar Pradesh and Madhya Pradesh, each state would have equal share in power generation while the later is a Central Sector Project being executed by NTPC.

Mobile Exhibition Vans to Popularise Non-conventional Energy Sources in Orissa

2768. SHRI SANTOSH KUMAR SAHU: Will the Minister of POWER AND NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) what are the details of steps contemplated to popularise Non-conventional sources of energy in Orissa;

(b) how these compare to the steps taken for the entire country, specially in the field of publicity through press exhibitions and publicity in Oriya language through Radio/TV seminars, etc.; and

(c) which are the places in the country where Mobile Exhibition Vans have been provided, or proposed to be provided and the details of steps taken to provide such a van in Orissa?

THE MINISTER OF STATE OF THE MINISTRY OF POWER AND NON-CONVENTIONAL ENERGY SOURCES (SHRI KALPNATH RAI): (a) and (b) The Department of Non-Conventional Energy Sources extends financial and physical support to the Nodal Agencies in the States to popularise Non-Conventional Energy Sources in the country. For several programmes viz. National Programme of Biogas Development, National Programme of Improved Chulah, and Solar Thermal Systems, Solar Photovoltaic Systems, Wind Energy Projects, Urjagram Projects, Micro Hydel Projects etc. the DNES is extending financial incentives and various other fiscal concessions as well as loans through IREDA (Indian Renewable Energy Development Agency) for the installation and use of Non-Conventional Energy Sources' devices.

The position of installation of some of the major Non-conventional Energy Sources in Orissa upto 31.3.1991, is given as below:

S. No.	Name of the Programme	Position as on 31.3.1991 (Nos.)
1.	Family Type Biogas Plants	61,429
2.	Improved Chulhas	3,39,528
3.	Energy Plantation (Area in Ha.)	510
4.	Street Lighting (No. of villages)	478
5.	Wind Pumps	317
6.	Urjagram under implementation	8
7.	Solar Cookers	769

For publicity, the steps taken in regard to Orissa Renewable Energy Development Agency(OREDA) include participation in exhibitions, supply of video cassettes in Oriya and English languages, photographic blowups and write-ups, booklets, literature pamphlets, posters and supply of one mobile exhibition van to Orissa. During 1991 at the Department has helped organisation of two exhibitions in Orissa, and a video-spot on improved chulha and a Radio Jingle on Biogas are earmarked for broadcast in Oriya language presently as part of the publicity programme through Radio.

(c) The Department have been inviting proposals from the nodal agencies for

supply of mobile exhibition vans on cost sharing basis. At present, mobile exhibition vans are located at Lucknow (U.P.), Bhopal, (M.P.), Bombay (Maharashtra), Hyderabad (A.P.) Vadodara (Gujarat), Delhi and one has recently been allocated to Orissa Renewable Energy Development Agency, located at Bhubaneswar.

Extraction of Energy from Sea Waves in Orissa

2769. SHRI SANTOSH KUMAR SAHU: Will the Minister of POWER AND NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) whether it is a fact that a project for Extraction of Energy from Sea Waves was being implemented in Orissa; and

(b) if so, details thereof including the results derived and the latest status *vis-a-vis* the activity of the said project?

THE MINISTER OF STATE OF THE MINISTRY OF POWER AND NON-CONVENTIONAL ENERGY SOURCES (SHRI KALPNATH RAI): (a) and (b) Yes, Sir. An R & D project for extraction of energy from sea waves was undertaken by Cacutta Port Trust. A mechanical device was fabricated at Howrah but tested at Puri beach in Orissa. The trials showed that conversion of kinetic energy into mechanical work was feasible. The device was howerver not cosidered suitable for power generation. Further R & D work on this project was therefore suspended after conclusion of Phase I in September, 1990.

गुजरात में "कुटीर ज्योति योजना" का कार्यान्वयन

2770. **श्री रामसिंह राठवा:** क्या विद्युत और गैर-पारम्परिक ऊर्जा स्रोत मंत्री यह बताने की कृपा करेंगे कि:

(क) गुजरात के कितने गांवों में बिजली नहीं है;

(ख) उन स्थानों के नाम क्या-क्या हैं जहां "कुटीर ज्योति योजना" लागू कर दी गई है; और

(ग) गुजरात के कितने गांवों में इस योजना को लागू किए जाने की सम्भावना है?

विद्युत और गैर-पारम्परिक ऊर्जा स्रोत मंत्रालय के राज्य मंत्री (श्री कल्पनाथ राय): (क) गुजरात राज्य बिजली बोर्ड ने गुजरात में, 222 गांवों, जिन्हें जलमग्न स्कीम के अंतर्गत आने वाले गांव, गैर-आबाद आदि जैसे कारणों से विद्युतीकरण के लिए व्यावहारिक नहीं पाया है, को छोड़कर, सभी गांवों को शत-प्रतिशत विद्युतीकृत घोषित कर दिया है।

(ख) और (ग) कुटीर ज्योति स्कीम के अंतर्गत जिसका 1988-89, और 1989-90 के दौरान केन्द्रीय अनुदान के माध्यम से वित्त-पोषण किया गया था, लाभ भोगियों का पता लगाने का कार्य संबंधित राज्य सरकार पर छोड़ दिया गया था। जहां तक गुजरात राज्य का संबंध है, इस स्कीम के अंतर्गत समग्र राज्य में 21540 सिंगल प्वांइट लाइट कनैक्शन दिए जाने के लक्ष्य की तुलना में अधिक कनैक्शन दिए गए हैं। यथोक्त स्कीम को 31.3.1991 के पश्चात् जारी नहीं रखा गया है।

Plant Load Factor for Thermal Power Stations

2771. SHRI PRAMOD MAHAJAN: Will the Minister of POWER AND NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) whether the Plant Load Factor for Thermal Power Stations is less this year; and

(b) if so, what are the reasons therefor?

THE MINISTER OF STATE OF THE MINISTRY OF POWER AND NON-CONVENTIONAL ENERGY SOURCES (SHRI KALPNATH RAI): (a) and (b) During the period April, 91—November, 91 the Plant Load Factor of thermal power stations in the country was 52.8% as against the target of 54.4%. The main reasons for less PLF% was taking maximum number of thermal units under planned maintenance due to